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## Challenging metabolic networks at high temperature:

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VRIJE UNIVERSITEIT

Challenging metabolic networks at high temperature:  
The central carbohydrate metabolism of *Sulfolobus solfataricus*

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. L.M. Bouter,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Aard- en Levenswetenschappen  
op dinsdag 6 november 2012 om 11.45 uur  
in het auditorium van de universiteit,  
De Boelelaan 1105

door

Jutta Theresa Kouril

geboren te Kassel, Duitsland

promotoren:      prof.dr. H.V. Westerhoff  
                         prof.dr. B. Siebers